

Fig. 1

SELEPHSEWRCPVGEPYLISSDPRISLLIGPSILISGS TIS V L LSIGBAINA SS L TQG A IGK Y VLQL YISLNSDMYER SIDPHDFWRRCPVGEPYLISNNPNISLLPGPSILISGS TIS V L LSIGBAINA SS L TQG A IGK Y VLQL YISLNSDMYER SIDPHDFWRRCPVGEPYLISNNPNISLLPGPSILISGS TIS V L LSIGBAINA SS L TQG A IGK Y VLQL YISLNSDLVER YISLNPOWER TO THE TOTAL YISLNSDLVER YISLNPOWER TO THE TOTAL YISLNSDLVER YISLNPOWER TO THE TOTAL YISLNEY TO THE TOTAL YISLNPOWER TO THE TOTAL YISLNEY TO THE TOTAL YIS	PLOGDTKCRTQG QQVSQDTCNE LKITWLGGKQVVNVIIRVNDYLSERPKIRVTTIPITQNYLGASG LLKLGDRVYT PLOGDTKCVTNR ANVNQSVCNDALKITWLKKRQVVNVLIRINNYLSDRPKIVVETIPITQNYLGASG RLLKLGKKIYI PLOGDTKCVTRG PGKTQRDCNQASHSPWFSDRRWVNSIIVVDKGLNSIPKLKVWTIPITGANGAEGRLLKLGKKIYI GTSLWNNQANKYFIPQWAAL.SQNQATQVQN RSSYYSSWFGNRMIQSGILACPLRQDLTNECLVLPFSNDQVLMGAEGRLYNTNYGDSVYX GTSLWNNQANKYFIPQWAAL.SQNQATQVQN RSSYYSSWFGNRMIQSGILACPLRQDLTNECLVLPFSNDQVLMGAEGRLYVIDNNLLY NSSLGVKSAREFFRPVNPYNP SGPQQDLDQRALRSYFPSYFSNRRVQSAFLVCAWNQILVTNCELVVPSNNQTLMGAEGRLYVIDNNLLY NSPSDTVQEGKYVIYKRYNDT PDEQDYQIRMAKSSYKPGRFGGKRIQQAILSIKVSTSLGEDPVLTVPPNTVTLMGAEGRLTVGTSHFL NSPSDTVQEGKYVIYKRYNDT PDEQDYQIRMAKSSYKPGRFGGKRIQQAILSIKVSTSLGEDPVLTVPPNTVTLMGAEGRLTVGTSHFL	SGWHSQLQIGVLDVSHPLTINWTPHEALS NQD NWYNR RE IS T AYP SPDANNVATTT YANTS V TIM SGWHSHLQIGSLDIINV.PMTIKWAPHEVLS NQD NWYNR RE IS T AYP SPDAVNVATTT YANTS V TIM SWWHSKLQIGIIDITDYSDIRIKWTHNVLS NNE PWGHS TSWHSKLQIGIIDITDYSDIRIKWTHNVLS NNE PWGHS DG IT T AYP NPTGSIVSSVI DSQKT V VIT NSWWPMMIKVLOGIITETHGQPSAISAQNVPTQQVP VMP NATSF AN IT A VWP NDPEPTSQNALNPNYRFAGAF RNESN T TEY SGWNSASLEYRINTDFSKGIPPIIEAQWVPSYQVP VMP NATSF AN IT A VWP NDPEPTSQNALNPNYRFAGAF RNESN T TEY TSWHSASLEYRINTDFSKGIPPIIEAQWVPSYQVP VMP NATSF AN IT A VWP NDPEPTSQNALNPNYRFAGAF RNESN T TEY SGN SGENV TA VS I PWP IFYRHTIRGVFGIM DSEQA L ASA SSYFSPALLYPMTVSNKTATLHSPYTFNAFT SIP QASAR NS VT TPYP IFYRNHTIRGVFGIM DSEQA L ASA BASS BASS	NITNIINMLRIKDVQLEVA TTISS ITHFGKG FH I INQKSINTLOPMLFKTSIPKICKAES NTSEIINMLRIKNVQLEAA TTTS. ITHFGKG FH V INQTSINTLOPMLFKTSIPKICKITS TATERVNELAIRNKTISAG TTTS. ITHFGKG FH V INHKSLDTFQPMLFKTEIPKSCS TATERVNELAIRNKTISAG TTTS. ITHYNKG FH V INHKSLDTFQPMLFKTEIPKSCS NNTQIISSQQFGSSGQEAA GHTT. FRDTGSVWV IY I LSSSLLGGFQIVPFIRQVTLS SASALLNTTGFNNTNHKAA ISST. FKNTGTQKI LI I MGSSLLGEFQIIPFLRELIP ALNNLKVLAPYGNQGLFAS TTTT. FQDTGDASV VY M LASNIVGEFQIIPVLTRLTIT DSTSRSRITRVSSSSTKAA TTST. FKVVKTNKT LS A ISNTLFGEFRIVPLLVEILKNDGVREARSG
endai IV1 IV3 V5 IV2 Umps DV (124) endai IV1 IV3 IV5 IV5 IV5 IV5 IUNDS	Sendai CELTTP PIV1 CELTTP PIV3 CECLEHP SV5 CECLIKG Mumps CECLIKG MUMP (317) CELKPN	Sendai SSGW PIV1 SSGW PIV3 STSW SV5 STSW PIV2 SSSW Mumps STSW	HHAZAHO
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Fig. 3

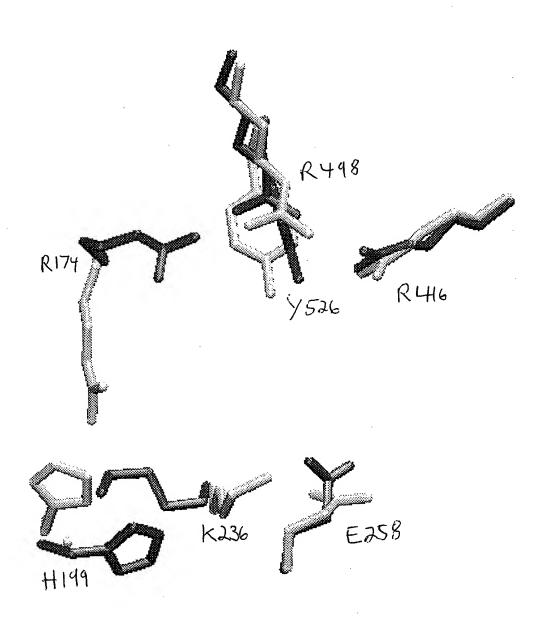


Fig. 4

	Native 1	Native 2	Native 3	Native 4	NANA	DANA
Cell (Å)	73.3	72.3	71.7	72.0	71.6	137.5
	78.0	77.9	77.9	83.8	77.6	137.5
	202.6	199.2	198.2	201.5	197.2	116.6
Temp(K), pH	293, 7	100, 4.6	100, 4.6	293, 6	100K, 4.6	100K,6.5
Resolution	3.0	2.0	2.5	3.0	2.5	2.8
# obs	172104	623166	420703	277932	210555	498619
# unique	20022	68217	38168	22207	29671	38673
Complete ness(%)	83	86	97	88	76	94
R _{merg} (%)	9.3	4.9	3.1	9.3	4.2	5.2
R-factor			0.222		.223	0.209
R _{free}			0.277	:	.291	0.235
# protein atoms			6914		6914	6896
# CHO, Ca,			89		116	111
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Fig. 5



ligands

# waters	211	207	239
 A, B Å²	25,36	32,44	44,44
 ligand Å²		38,57	48,41

Table 1 Crystallographic data and refinement statistics.

Datasets Native2, Native3, NANA and DANA from frozen crystals were collected on beamlines 11 and BW7A at DESY, Hamburg. All other datasets were collected on in-house rotating anode and image plate or multiwire detector systems.

Remerge = $\sum_{hkl} \sum_{i} |\sum_{hkl}^{i} - \langle |_{hkl} \rangle | / \sum_{hkl} \sum_{i} \langle |_{hkl}^{i} \rangle$ where the sum i is over all separate reasurements of the unique reflections hkl.

$$\mathbf{R}\text{-factor} = \mathbf{\Sigma}_{\mathsf{hkl}} \left[\left| \mathbf{F}_{\mathsf{obs}} \right| - \left| \mathbf{F}_{\mathsf{calc}} \right| \right] / \mathbf{\Sigma}_{\mathsf{hkl}} \left| \mathbf{F}_{\mathsf{obs}} \right|$$

R_{free}, as R-factor but summed over a 10% test set of reflections.